

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: August 28, 2002, 08:01:00 ; Search time 2751.06 seconds
(without alignments)
12197.381 Million cell updates/sec

Title: US-08-711-417C-165

Perfect score: 1551

Sequence: 1 ATGAGCTCTACACGAGGTCA.....ACGCTTCACATGAGCTAA 1551

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 21979536 seqs, 10817449327 residues

Total number of hits satisfying chosen parameters: 43959072

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match % | Length | DB | ID | Description |
|------------|--------|---------------|--------|----|---------------------|-------------------|
| 1 | 1551 | 100.0 | 1788 | 18 | US-09-435-327A-19 | Sequence 19, Appl |
| 2 | 1497.8 | 96.6 | 6171 | 56 | US-60-172-373-18124 | Sequence 18124, A |
| 3 | 1468.8 | 94.7 | 3629 | 14 | US-09-023-655-923 | Sequence 923, App |
| 4 | 1468.8 | 94.7 | 3629 | 18 | US-09-435-327A-18 | Sequence 18, Appl |
| 5 | 1468.8 | 94.7 | 3629 | 18 | US-09-442-384A-721 | Sequence 721, App |
| 6 | 1468.8 | 94.7 | 4786 | 25 | US-09-849-161-10365 | Sequence 10365, A |
| 7 | 1468.8 | 94.7 | 4786 | 25 | US-09-852-816-9158 | Sequence 9158, Ap |
| 8 | 1468.8 | 94.7 | 4786 | 27 | US-09-698-013-6274 | Sequence 6274, Ap |
| 9 | 1468.8 | 94.7 | 4786 | 27 | US-09-698-014-4890 | Sequence 4890, Ap |
| 10 | 1468.8 | 94.7 | 4786 | 28 | US-09-717-350-5922 | Sequence 5922, Ap |
| 11 | 1468.8 | 94.7 | 4786 | 29 | US-09-726-802-2123 | Sequence 2123, Ap |
| 12 | 1468.8 | 94.7 | 4786 | 29 | US-09-726-811-4096 | Sequence 4096, Ap |
| 13 | 1457.8 | 94.0 | 6203 | 71 | US-60-324-185-24401 | Sequence 24401, A |
| 14 | 1386 | 89.4 | 1386 | 1 | PCT-US99-02559-16 | Sequence 16, Appl |
| 15 | 1386 | 89.4 | 1386 | 6 | US-08-238-212A-3 | Sequence 3, Appli |
| 16 | 1386 | 89.4 | 1386 | 8 | US-08-465-590B-3 | Sequence 16, Appl |
| 17 | 1386 | 89.4 | 1386 | 11 | US-08-733-622A-16 | Sequence 16, Appl |
| 18 | 1386 | 89.4 | 1386 | 11 | US-08-733-622B-16 | Sequence 16, Appl |
| 19 | 1386 | 89.4 | 1386 | 14 | US-09-019-348-16 | Sequence 16, Appl |
| 20 | 1386 | 89.4 | 1386 | 14 | US-09-019-348A-16 | Sequence 16, Appl |
| 21 | 1386 | 89.4 | 1386 | 29 | US-09-755-830-2 | Sequence 3, Appli |
| 22 | 1382.4 | 89.1 | 1611 | 5 | US-08-121-438-3 | Sequence 18, Appl |
| 23 | 1174.8 | 75.7 | 2049 | 1 | PCT-US99-02559-18 | Sequence 5, Appli |
| 24 | 1174.8 | 75.7 | 2049 | 6 | US-08-238-212A-5 | Sequence 5, Appli |
| 25 | 1174.8 | 75.7 | 2049 | 8 | US-08-465-590B-5 | Sequence 5, Appli |
| 26 | 1174.8 | 75.7 | 2049 | 11 | US-08-733-622A-18 | Sequence 18, Appl |
| 27 | 1174.8 | 75.7 | 2049 | 11 | US-08-733-622B-18 | Sequence 18, Appl |
| 28 | 1174.8 | 75.7 | 2049 | 14 | US-09-019-348-18 | Sequence 18, Appl |
| 29 | 1174.8 | 75.7 | 2049 | 14 | US-09-019-348A-18 | Sequence 18, Appl |
| 30 | 1174.8 | 75.7 | 2049 | 29 | US-09-755-830-4 | Sequence 4, Appli |
| 31 | 868 | 56.0 | 1004 | 1 | PCT-US99-02559-21 | Sequence 21, Appl |

ALIGNMENTS

| Query Match | 100.0% | Score 1551 | DB 18 | Length 1788 |
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| Best Local Similarity | 100.0% | Pred. No. 0 | | |
| Matches 1551 | Conservative 0 | Mismatches 0 | Indels 0 | Gaps 0 |
| QY | 1 | ATGCGTCTGCAGAGGGTCAAGACATGCTTTCTTCATCAGGAAGGAAGCCCCCTGTA | 60 | |
| Db | 238 | atgagtctgacgagggtcaagacatgctttctcatcagggaaggaagccccctgta | 297 | |
| QY | 61 | AGCGATPACTCCAGATGAGGGCGATGAGCCATGCGGATCCCGAGGAGCTCTCCACACC | 120 | |
| Db | 298 | agcgatctccagatgagggcgatgagcccatgcgatccccgaggaacctctccaccacc | 357 | |
| QY | 121 | TCGGGAGGACAGCAAGTCTCAAGAGTGACAGAGTCGTGGCCAGTAATGTTAAAGTAGAG | 180 | |
| Db | 358 | tcgggaggacagcaaatcgctcaagagtacagagtcgtgggccagttaagttaagtagag | 417 | |
| QY | 181 | ACTCAGAGTGATGACAGAAATGCGGCGTGCCCTGTGNAATGATGGGAGGAATGTGCGGAG | 240 | |
| Db | 418 | actcagagtgtagagagaatgggctgcttgtaaatgaaatggaatggggaagaatgtgcggag | 477 | |
| QY | 241 | GATTTAGAATGCTTCATGCCCTCGGAGAGAAATGAATGCTCCACAGGACCAAGGC | 300 | |
| Db | 478 | gatttagaactgcttgatgctctggagagaaaaatgaatgctccacaggggaccaaaggc | 537 | |
| QY | 301 | AGCTCGGCTTTGTGGGAGTTGGAGCATTCGACTTCCTAACGGAAACTAAAGTGTGAT | 360 | |
| Db | 538 | agctcggtttgtcgggagttgaggcattcgactctctaagcgaaacataaagtcgat | 597 | |
| QY | 361 | ATCTGTGGGATCATTTGCAATCGSGGCCAATGTGCTCATGTTTCACAAAAGAACGCACAT | 420 | |
| Db | 598 | atctgtgggaatcatttgcatactcggggcccataatgtgctcattgttcacaaaaagaagccact | 657 | |
| QY | 421 | GGAGAAGCGGCCCTTCACAGTGCAATCAGTCGGGGGCTCTCATTCACCCAGAGGGCAACTG | 480 | |

Db 1738 gagttctgtcgacataacgcgagggagcaccgcttccacatgagctaa 1788

RESULT 2

US-60-172-373-18124
; Sequence 18124, Application US/60172373
; GENERAL INFORMATION:
; APPLICANT: Morris, MacDonald
; APPLICANT: Lal, Preeti
; APPLICANT: Diep, Dinh
; TITLE OF INVENTION: Method for the Identification of Sequence Polymorphisms Using
; FILE REFERENCE: Polynucleotide Sequence Databases, and Single Nucleotide Polymorph
; CURRENT APPLICATION NUMBER: US/60172,373
; CURRENT FILING DATE: 1998-12-16
; NUMBER OF SEQ ID NOS: 25,772
; SOFTWARE: PERL Program
; SEQ ID NO 18124
; LENGTH: 6171
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No: 345320.3
; LOCATION: 3401-3583
; OTHER INFORMATION: a, t, c, g, or other
US-60-172-373-18124

Query Match 96.6%; Score 1497.8; DB 56; Length 6171;
Best Local Similarity 98.5%; Pred. No. 1.6e-303;
Matches 1534; Conservative 0; Mismatches 17; Indels 6; Gaps 2;

QY 1 ATGGATGCTCAGCAGGGTCAAGACATGTCTTTCTCATCAGGGAAGAAAGCCCTGTGA 60
Db 142 atggatgctcagcagggatgaagacatgtctttctcatcagggaaagaaagccctgtga 201
QY 61 AGCGATACTCAGATAGGCGGATAGCCCATGCGGATCCCGAGGACCTCTCCACCACC 120
Db 202 agcgatactcagatagggcgatagcccatgcccagatgcccagggagacccctccacc 261
QY 121 TCGGGAGGACAGCAAGCTCCAGAGTGCACAGTGTGCGCCAGTAATTTAAAGTAGAG 180
Db 262 tcggggagagcagcaagctccagagtgacagagtcgtgcccagtaatttaagtagag 321
QY 181 ACTCAGATGATCAAGAGAAATGGCGTGCTGTGAAATGAATGGGGAAGAAATGTGCGGAG 240
Db 322 actcagatgatgaagagaatggcgctgctggaatgaaatggggagaagatgtgcgag 381
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Db 382 gattacgaatgcttgatgccctcggagagaaaatgaatgctcccaaggagaccagagc 441
QY 301 AGCTCGGCTTTCTCGGGAGTTGAGGCAATTCGACTTCCTACCGGAAACCTAAAGTGTGAT 360
Db 442 agctcggctttctcgggagttgagggcattcgacttccatacggaaataaagtgatg 501
QY 361 ATCTGTGGGATCATTTGATCGGGCCCAATGTGCTCATGTTTCACAAAGAACGACACT 420
Db 502 atctgtggatcatttgatcgggcccgaatgtgctcatggttcacaaagaaagcacaact 561
QY 421 GGAGAACGCCCTTCCATGTGCAATCAGTGGGGGCGCTCATTCACCCAGAGGCAACCTG 480
Db 562 ggagaaacgcccctccagtcgaatcagtcagtcggggccctcattcccccagaaaggaact 621
QY 481 CTCGGCAGCATCAAGCTCATTCGGGGAGAGGCGCTTCAATGCCACCTCTGCAACTAC 540
Db 622 ctccggcagatcaagctgcatcccgggagagagcccttcaaatgccacctctgcaactac 681
QY 541 GCCTGCCCGGAGGAGCGCCCTCACTGGCCACCTGAGGAGCACTCCGTGTTGTTAACTT 600
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RESULT 3

US-09-023-655-923
; Sequence 923, Application US/09023655
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart

APPLICANT: Jeffrey J. Seilhamer
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
TITLE OF INVENTION: EXPRESSION
NUMBER OF SEQUENCES: 1508
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 PORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,655
FILING DATE: HEREWITH
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0001 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 923:
SEQUENCE CHARACTERISTICS:
LENGTH: 3629 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GENBANK
CLONE: g1289370
US-09-023-655-923

QY 1492 GACCGGTACGAGTTCGTGCGACATTAACGCGAGGGAGCACCCTTCCACATGAGCTAA 1551
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Db 1669 GACCGGTACGAGTTCGTGCGACATTAACGCGAGGGAGCACCCTTCCACATGAGCTAA 1728
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RESULT 4
US-09-435-327A-18
; Sequence 18, Application US/09435327A
; GENERAL INFORMATION:
; APPLICANT: Uckun, Fatih M.
; APPLICANT: Crotty, Mya L.
; TITLE OF INVENTION: IKAROS ISOFORMS AND MUTANTS
; FILE REFERENCE: 12152.35USU1
; CURRENT APPLICATION NUMBER: US/09/435.327A
; CURRENT FILING DATE: 1999-11-05
; PRIOR APPLICATION NUMBER: 60/107,229
; PRIOR FILING DATE: 1998-11-05
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 3629
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (3078)
; OTHER INFORMATION: Genbank HSU40462
US-09-435-327A-18

Query Match 94.7%; Score 1468.8; DB 18; Length 3629;
Best Local Similarity 97.7%; Pred. No. 1.7e-297;
Matches 1524; Conservative 0; Mismatches 27; Indels 9; Gaps 3;
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Db 169 atggatgctgaggggtcaagacatgtcccaagtttcaagggaagaaagccccctgta 228
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QY 61 AGCGATATCTCAGATGAGGGCGATGAGCCCATGCCGATGCCGAGGACCTTCCACACACC 120
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Db 229 agcgatactccagatgaggcgatgagcccatgccgacgccccggagggacccctccaccacc 288
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QY 121 TCGGAGGACAGCAAAAGTCCCAAGAGTGCACAGTCTGCGCAGTAAATGTTAAAGTAGAG 180
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Db 289 tcggaggagacagaaagctcccaagtgacagagtcgycgagtgaaatgaatgggaagaatgtgcgag 348
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QY 181 ACTCAGAGTGATGAAGAGAAATGGCGCTGCCCTGTGAATGAATGGGGAAGAAATGTGCGGAG 240
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Db 349 actcagagtgaagagaaatggcgctgtgcctgtgaaatgaatgggaagaatgtgcgag 408
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QY 241 GATTACGAATGCTTGATGCTCGGGAGAGAAAATGAATGGCTCCCAACAGGGACCAAGGC 300
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Db 409 gattacgaaatgctgagtcctcgggagagaaatgaatggctcccaacagggagccaaggc 468
|||||
QY 301 AGCTCGGCTTTGTGCGGAGTGGAGGATTCGACTTCTTAACGGAAAATCAAAATGTGTGAT 360
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Db 469 agctcgctttgtcgagttgagagcattcgacttcttaacggaaaaactaaagtgtgat 528
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QY 361 ATCTGTGGATCATTTGCATCGGGCCCAATGTGCTCATGTTTCAAAAAGAACCCACACT 420
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Db 529 atctgtggatcatattgcatcgggcccaatgtgctcatgtttcacaaaaagaagccacct 588
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QY 421 GGAGAAGCGCCCTTCCAGTGCATCAGTGGGGCCCTCATTCACCAAGAGGCGCACCTTG 480
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Db 589 ggagaaagcccttccatgagtcagtcagtcgagggccctcatccaccagaggggcaacctg 648
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QY 481 CTCGGGCACATCAAGTTCATTCGGGGAGAGCCCTTCAATGCCACCTCTCAACTAC 540
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Db 649 ctccgacatcaagctgcatccggggagagcccttcaaatgcaacctctgcaactac 708
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QY 541 GCCTGCCGCGGGAGGACGCCCTCACTGCCCACTGAGGACGACCTCCGTTGGTAAACCT 600
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Db 709 gctgcccgcgag 768
QY 601 CACAAATGTGATATTTGTCGCCGAAGCTATAACAGAGCGAAGCTTTTAGAGGAACATAAA 660
|||||
Db 769 cacaatgtgataattgtgcccgaagctataaacagagagagagagagagagagagagagagag 828
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QY 661 GAGCGCTGCCCAACTACTTTGGAAGCATGGCTTCCGGGCACACTGTACCCAGTCATT 720
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Db 829 gagcgtgcccacaactacttggaaagcatggcctccgggacacgtgtaccagtcatt 888
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QY 721 AAGAAGAACTAAGCACAGTGAATGGCAAGACACTGTGCAAGATAGATGATGATGATGATGAT 780
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Db 889 aagaagaactaatcacagtgaatggcagaagacctgtgcaagatagatgagatgagagaga 948
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QY 781 TCTCTGCTGTCGACAGACTAGCAAGTAATGTGCCCAAAAGCTAAGAGCTTATGCTCTCAG 840
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Db 949 tctctgctgctggacagactagcaagtaacgtgcgcaaacgtgaagagctctatgctcag 1008
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QY 841 AAATTTCTTGGGACAGAGGCGCTGTCCGACACGCCCTTACGA---CAGTGGCAGGTACGAG 897
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Db 1009 aaatttcttgggacaagggcctgtccgacacgcccctacgacagcgcgcaagctacgag 1068
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QY 898 AAGGAGAACCAATGATGAAGTCCACAGTGTGATGACCAAGCCATCAACGCCATCAAC 957
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QY 1255 CGCGCGC---AAGCGCTGCTCAAGGAGGAGCAGCGCGCTAGCAGCTGCTGCGCGCC 1311
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Db 1429 cagcgcgcgaacgcgctgtgctcgaagggagcagccgcgctacgacctgctgcgcgc 1488
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QY 1312 GCTCCGAGAACTCCGAGGACGCGCTCCGCGTGGTCCAGCAGCGGGGAGGAGATGAAG 1371
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Db 1489 gctcccgaaactcgcgagcgcgcgtccgcgtggtcagcaccacgcgagcagatgaag 1548
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QY 1372 GTGTCAAGTGGCAACACTGCGGGGTGCTCTCTCTGATGATGATGATGATGATGATGAT 1431
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Db 1549 ggtacaagtgcgaacactgcgggtgtctctctctggtacgctcatgtacacacacac 1608
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QY 1432 ATGGGTGCGCAGCGGTTCCTGATCTTTTGTGATGCAACATGTGCGGTACCCACAGCCAG 1491
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Db 1609 atgggctgccagcgttcggtgacatcttggagtgcacaatgtgcggtacacacagcag 1668
|||||
QY 1492 GACCGGTAGAGTTCCTGTCGCACATAACGCGAGGGGAGCAGCCGCTTCCACATGAGCTAA 1551
|||||
Db 1669 gaccggtacgagttctgtgcacataacgcgaggggagcaccgcttccacatgagctaa 1728
|||||

RESULT 5
US-09-442-384A-721
; Sequence 721, Application US/09442384A
; GENERAL INFORMATION:
; APPLICANT: Chenchik, Alex
; APPLICANT: Lukashev, Matvey

; TITLE OF INVENTION: Hematology/Immunology Array
; FILE REFERENCE: CLON-006CIP15
; CURRENT APPLICATION NUMBER: US/09/442.384A
; CURRENT FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: 09/053,375
; PRIOR FILING DATE: 1998-03-31
; NUMBER OF SEQ ID NOS: 830
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 721
; LENGTH: 3629
; TYPE: DNA
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 3078
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: 3078
; OTHER INFORMATION: n = A,T,C or G
US-09-442-384A-721

| | | | | | |
|-----------------------|-----|--|---------------------|-----------|--------------|
| Query Match | | 94.7%; | Score 1468.8; | DB 18; | Length 3629; |
| Best Local Similarity | | 97.7%; | Pred. No. 1.7e-297; | | |
| Matches 1524; | | Conservative 0; | Mismatches 27; | Indels 9; | Gaps 3; |
| QY | 1 | ATGGATGCTGACGAGGCTCAAGACATGCTTCTCATCAGGAAGGAGCCGCCCTGTA | 60 | | |
| DB | 169 | atggatgctgtaggggtcaagacatgtcccaagtttcagggagggagccccccctgta | 228 | | |
| QY | 61 | AGCGATATCCAGATGAGGGCGATGAGGCCCATGCCGATCCCGAGGACCTCTCCACCAACC | 120 | | |
| DB | 229 | agcgatactccagatgagggcgatgagcccatgccatgccagaggaacctctccaccacc | 288 | | |
| QY | 121 | TGGGAGGACACAAAGCTCCAAAGAGTGCAGAGTGGCGCAGTAATGTTAAAGTAGAG | 180 | | |
| DB | 289 | tcgggaggacagcaagctcccaagagttacagagtcgtggccagtaacgtaaaagtagag | 348 | | |
| QY | 181 | ACTCAGAGTGATGAAGAGAAATGGGCGTGCCTGTGAATGAATGGGGAAGAATGTCCGGAG | 240 | | |
| DB | 349 | actcagagtgatgaagagaaatggcgctgtgaaatgaaatgggagaaatgtgcggag | 408 | | |
| QY | 241 | GATTTACGAATGTTGATGCCCTCGGGAGAGAAATGAATGGCTCCACAGGGACCAAGGC | 300 | | |
| DB | 409 | gattacgaatgctgatccctcgggagagaaatgaatggctcccaacagggaccaaggc | 468 | | |
| QY | 301 | AGCTCGGCTTTCGGGAGCTTGAGGCAATCGACTTCCTTAACGGAAACTAAAGTGTGAT | 360 | | |
| DB | 469 | agctcggcttgcgggagttggaggcatctcgaactccctcaacggaaactaaagtgtgat | 528 | | |
| QY | 361 | ATCTGTGGGATCATTTGCAATCGGGCCCAATGTGCTCATGGTTACAAAAGAGCCACACT | 420 | | |
| DB | 529 | atctgtgggatcatttgcacggcccaatgtgctcatggttcacaaagaagaccacact | 588 | | |
| QY | 421 | GGAGAACGGCCCTTCAGTGCATAGTGGGGGCTCATTCACCCAGNAGGGCAACCTG | 480 | | |
| DB | 589 | ggagaacggccctccagtgcacatagtcggggcctcattccaccagaagggaaccttg | 648 | | |
| QY | 481 | CTCCGCACATCAAGCTGATTCGGGGAGAGGCCCTTCAAATGCGACCTCTGCAACTAC | 540 | | |
| DB | 649 | ctccggcacatcaagctgtattcccggggagagcccttcaaatgccactctgcaactac | 708 | | |
| QY | 541 | GCCTGCCCGCGGAGGACGCCCTCTACTGGCCCACTGAGGACGACCTCCCTTGGTAAACT | 600 | | |
| DB | 709 | gcctgcgcgcggaggaagcgcctcactggccactgaggaagcactccgttggtaaacct | 768 | | |
| QY | 601 | CACAAATGTGGATATTGTGGCCCAAGCTATAACACGCAACGCTTTAGAGGAACATAAA | 660 | | |
| DB | 769 | cacaaatgtggaattgtgtggccgaagctataaacacgagcgaagctctcttagaggacataaa | 828 | | |
| QY | 661 | GAGCGCTGCCACAACTACTTGGAAAGCATGGGCTTCCGGGACACACTGTACCCAGTCAPT | 720 | | |
| DB | 829 | gagcgctgcacaaactactgtgaaagcatggggcctcccgggcacactgtaccacagtcatt | 888 | | |

RESULT 6

US-09-649-161-10565
; Sequence 10565, Application US/09649161
; GENERAL INFORMATION:
; APPLICANT: Gutierrez-Ramos, Jose-Carlos
; APPLICANT: Valieval, Jean-Luc M.G.
; APPLICANT: Fraser, Christopher C.
; APPLICANT: Holtzman, Douglas A.
; APPLICANT: Hodge, Martin R.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; FILE REFERENCE: 1600.1178-001
; CURRENT APPLICATION NUMBER: US/09/649.161
; CURRENT FILING DATE: 2000-08-28
; PRIOR APPLICATION NUMBER: 60/151,060

; PRIOR FILING DATE: 1999-08-27
; NUMBER OF SEQ ID NOS: 10788
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10565
; LENGTH: 4786
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(4786)
; OTHER INFORMATION: n = A,T,C or G
US-09-649-161-10565

Query Match 94.7%; Score 1468.8; DB 25; Length 4786;
Best Local Similarity 97.7%; Pred. NO. 1.8e-297;
Matches 1524; Conservative 0; Mismatches 27; Indels 9; Gaps 3;

QY 1 ATGGATGCTGACGAGGGTCAACACATGCTTCTCATCAGGGAAGAAAGCCCTGTA 60
|||||
Db 434 atggatgctgacgaggggtcaacacatgcttctcatcagggaagaaagccctgta 60
|||||
QY 61 AGCGATACCTCCAGATGAGGGGATGAGCCCATGCGGATCCCGAGGACCTCTCCACCACC 120
|||||
Db 494 agcgatactccagatgaggggatgagcccatgcgatccccgagagacctctcaccacc 120
|||||
QY 121 TCGGGAGGACACAAAGCTCCAAAGAGTGACAGAGTGTGGCCAGTAATGTTAAAGTAGAG 180
|||||
Db 554 tcgggagagacagaaagctccaaagtgacagagtcgtggccagtaattgttaaagtagag 180
|||||
QY 181 ACTCAGAGTGATGAAGAGAAATGGGCGTCCCTGTGAATGAATGGAAGAGATGTCCGGAG 240
|||||
Db 614 actcagagtgaagagagaaatgggctgtgaatgaatggaagagatgttgcggag 240
|||||
QY 241 GATTACGAATGCTGATGCTCGGGAGAGAAATGAATGGCTCCACAGGACCAAGGC 300
|||||
Db 674 gatttacgaatgctgatgctcgggagagaaatgaatgaatgctccacagagaccagggc 300
|||||
QY 301 AGCTCGGCTTGTTCGGGAGTGTGGAGGCAATTCGACTTCTAACGGAATAACTAAATGTGAT 360
|||||
Db 734 agctcggttgttcgggagtggtggaggaattcgacttctaaacggaataaagtgtgat 360
|||||
QY 361 ATCTGTGGGATCATTTGCTATGCTCGGGCCCAATGCTGATGTTTCAAAAGAGCCACACT 420
|||||
Db 794 atctgtggatcatattgctatgctcgcccaatgtgctatggttcaaaagagccacact 420
|||||
QY 421 GGAGAACGGCCCTTCCAGTGCATCAGTGGCGGCTCATTCACCCAGAGGGCAACCTG 480
|||||
Db 854 ggagaaaggcccttccagtgcattcagtcggggccctcattccaccagaggggcaacctg 480
|||||
QY 481 CTCCGGCACATCAAGCTCATTCGGGGAGAGAGCCCTTCAATGCCACCTCTGCAACTAC 540
|||||
Db 914 ctccggcacatcaagctcatctcggggagagagcccttcaatgccacctctgcaactac 540
|||||
QY 541 GCTGCGCCCGGAGGAGCGCCCTCAGTGGCCACCTGAGGAGCGACTCCGTTGGTAAACCT 600
|||||
Db 974 gcttgcgcggagggagcgccctcactggccacctgagagcgcaactcgttggtaaacct 600
|||||
QY 601 CACAAATGTGATATTGTGGCCGAAGCTATAACAGCGAAGCTGTTTATAGGAGCAATATA 660
|||||
Db 1034 cacaaatgtgatatgttggccgaagctataaacagcgaagctcttttagaggaacataaa 660
|||||
QY 661 GAGCGCTGCCACAACTACTTGAAGAGCATGGCTTCCGGGACACTGTACCCAGTCATTT 720
|||||
Db 1094 gagcgttcgcaacactacttggaaagcatggccttcgggacactgtaccacgtcatt 720
|||||
QY 721 AAAGAAGAACTAAGCAGTGAATGGCAGAGACTGTGCAAGATAGGATCAGAGAGA 780
|||||
Db 1154 aaagaagaactaagcagtgtaattggcagagacctgtgcaagataggatcagagaga 780
|||||
QY 781 TCTCTGCTGGACACACTAGCAAGTAATGTGCCAAACGTAAGAGCTCTATGCCCTCAG 840
|||||
Db 1214 tctctgctggacacactagcaagtaacgtgcgaacgtgcaacgtatgacctgacctgag 1273

QY 841 AAATTTCTTGGGACAAAGGGCTGTGCGACACAGCCCTACGA---CAGTGGCACGTACGAG 897
|||||
Db 1274 aaatttcttgggacaaagggcctgtccgacacgcccctacacagcagcgcgcgtacgag 1333
|||||
QY 898 AAGGAGAACGAATGATGAAGTCCACGTGATGACCAAGCCATCAACAAGCCCATCAAC 957
|||||
Db 1334 aaggagaacgaatgatgaagtccacgctgatggaccaagccatcaacaacgcatcaac 1393
|||||
QY 958 TACCTGGGGCCGAGTCCCTGCGGCCGCTGGTGCAGAGCCCCCGGGGGTTCGGAGGTG 1017
|||||
Db 1394 tacctggggccgagtcctcctgcccgtggtgcagacgcccccggttcccgaggtg 1453
|||||
QY 1018 GTCCCGGTTCATCAGCCGATGTACACGTGCACAC---GGCGCTCGGAGGACCCCGCGC 1074
|||||
Db 1454 gtcccggtatcatcagcccgatgtaccagctgcacaagcgtcgcggagggcaccgccgc 1513
|||||
QY 1075 TCAACCACTCGGCCCGGACGAGCGCGTGGAGTACTGTGTGTCTCTCAAGGCCAAG 1134
|||||
Db 1514 tcaaacactcggcccgagcagcgcgtggagaacctgtgtgtctcctcgaagggcgaag 1573
|||||
QY 1135 TTGCTGCCCTCGGAGCGGAGCGGTCCCGGAGCAACAGCTGCCCAAGACTCCACGGACACC 1194
|||||
Db 1574 ttgctgcccctcgagcgcggcgttcccccgagcaaacagctgtcaagactccacggacacc 1633
|||||
QY 1195 GAGAGCAACCAAGGAGGAGCGCGGTCTTATCTTACCTGACCAACCAACATCGGCCGA 1254
|||||
Db 1634 gagagcaacaacagagagcagcagcgtctctcatctacgtaccacaacacatcgccccg 1693
|||||
QY 1255 CGCGCGC---AAGCGGTGCTGCTCAAGGAGGAGCAGCGCGCTTACGACCTGTGCGCGCC 1311
|||||
Db 1694 cagcgcgcaacgttctgtctcaagagagcagcgcgtcctacgacctgtgctgctgctg 1753
|||||
QY 1312 GCCTCCGAGAACTCGGAGGAGCGCTCCCGGTGCTGAGGAGGAGCAGCGCGGAGGAGAGATGAAG 1371
|||||
Db 1754 gcttcgagaaactcgcagagcgcgtcccggtggtcagcaaccagcgggagcagatgaag 1813
|||||
QY 1372 GTGTACAAGTCCGAACACTGCCGGGTGCTTCTCTGATCAGCTGATGATACACCATCCAC 1431
|||||
Db 1814 gtgtacaagtgcgaacactgcccgggtgctctctctggtacacgtcatgtacaccatccac 1873
|||||
QY 1432 ATGGGCTGCCACGGCTCCGCTGATCTTTGAGTGAACATGTGCGGCTTACCAAGCCAG 1491
|||||
Db 1874 atgggctgcaacggtctcgtgctcttctgtatcctttgagtgcaacatgtgctgctaccacagccag 1933
|||||
QY 1492 GACCGGTACGAGTCTCGTCCGACATAACGCGAGGAGGAGCAGCGCTTCCACATGAGCTAA 1551
|||||
Db 1934 gaccggtacaggttctcgtctgcacataacgcgaggggggagcccgctccacatgagctaa 1993
|||||

RESULT 7

US-09-652-816-9158
; Sequence 9158, Application US/09652816
; GENERAL INFORMATION:
; APPLICANT: Cutierrez-Ramos, Jose-Carlos
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; FILE REFERENCE: 1600.1177-001
; CURRENT APPLICATION NUMBER: US/09/652,816
; CURRENT FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/152,111
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 9647
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9158
; LENGTH: 4786
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(4786)
; OTHER INFORMATION: n = A,T,C or G
US-09-652-816-9158

| | | | |
|---|------|---|------|
| Qy | 1018 | GTCCCGGTCAATACGCCGATGTACAGCTGCACA---GGCGCTCGGAGGGCACCCCGCGC | 1017 |
| Db | 1454 | gtccgggtcatcagcccgatgtaccagctgcacaagccgctctcgaggagggcaccoccgcg | 1513 |
| Qy | 1075 | TCCAAACACTCGCCCGCCAGGACAGCGCGGTGGAGTAGTACCTGTGCTGTCTCTCCAAGGCCAAG | 1134 |
| Db | 1514 | tccaaacacactcggcccgagcagcgccgttgagaaacctgtctgtctctccaaggccaag | 1573 |
| Qy | 1135 | TTGGTGCCTTCGGAGCGCGAGCGGTCCCGAGCAACAGCTGCCAAGACTTCCACGGACACC | 1194 |
| Db | 1574 | ttggtgccttcggagcgcgaggcggtccccgagcaacagctgtcaagactccacggaccc | 1633 |
| Qy | 1195 | GAGAGCAACACAGGAGGACGCGACGCGGTCTATTCTACTTGACCAACACATCGCCCGGA | 1254 |
| Db | 1634 | gagagcaaacacgagagcagcgagcgagcgggtctcatctacctgaccaaaccacatcgcccg | 1693 |
| Qy | 1255 | CGCGCGC---AAGCGGTGTGCTTCGAAGGAGGACACCGCGCTACGACCTGCTGGCGGCC | 1311 |
| Db | 1694 | cacgcgcgcaacggcttctcgctcaaggaggagcacgcgcctagcagctgtcgcgcgcc | 1753 |
| Qy | 1312 | GCCTCCGAGAACTCGCAGGACGCGCTCCGCGTGGTCAGCACACGCGGGGAGCAGATGAAG | 1371 |
| Db | 1754 | gcctcccgagaaactcgcagggcgcgtcccgctggtcagcacaccagcgggagcagatgaag | 1813 |
| Qy | 1372 | GTGTACAAGTCCGAACACTGCCGGGTGCTTTCCTGGATCAGTGTATACACCATCCAC | 1431 |
| Db | 1814 | gtgtacaagtgcgaacactcgggggtgctcttcgtgacagctgatgtacaccatccac | 1877 |
| Qy | 1432 | ATGCGCTGCCACGGCTTCCGTGATCCTTTTGTAGTGCAACATGTGCGGCTTACCACAGCCAG | 1491 |
| Db | 1874 | atggcgctgcacaggcttcccgatccttttgatgcacaatgtgcgctaccacagccag | 1933 |
| Qy | 1492 | GACCGGTACGAGTCTCCTCGCACATAACGCGAGGGAGGACCGCTTCCCATGAGCTAA | 1551 |
| Db | 1934 | gaccggtacgagttctcgtcgcataaacgcgaggggagcacgcgttcacatgagctaa | 1999 |
| RESULT ⁸ | | | |
| US-09-698-013-6274 | | | |
| ; Sequence 6274, Application US/09698013 | | | |
| ; GENERAL INFORMATION: | | | |
| ; APPLICANT: Gearing, David P. | | | |
| ; APPLICANT: Comrack, Christopher | | | |
| ; APPLICANT: Kingsbury, Gillian A. | | | |
| ; APPLICANT: Holtzman, Douglas A. | | | |
| ; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES | | | |
| ; TITLE OF INVENTION: THEREFOR | | | |
| ; CURRENT APPLICATION NUMBER: US/09/698,013 | | | |
| ; FILE REFERENCE: 1600.2013-001 | | | |
| ; CURRENT FILING DATE: 2000-10-27 | | | |
| ; PRIOR APPLICATION NUMBER: 60/162,360 | | | |
| ; PRIOR FILING DATE: 1999-10-29 | | | |
| ; NUMBER OF SEQ ID NOS: 7935 | | | |
| ; SOFTWARE: FastSeq for Windows Version 4.0 | | | |
| ; SEQ ID NO 6274 | | | |
| ; LENGTH: 4786 | | | |
| ; TYPE: DNA | | | |
| ; ORGANISM: Homo sapiens | | | |
| ; FEATURE: | | | |
| ; NAME/KEY: misc_feature | | | |
| ; LOCATION: (1)...(4786) | | | |
| ; OTHER INFORMATION: n = A,T,C or G | | | |
| US-09-698-013-6274 | | | |

QY 361 ATCTGTGGGATCATTTGGATCGGGCCCAATATGCTCATGTTTCAAAAAGAGCCACACT 420
Db 794 atctgtgggatcatattgcatcgcccaatgtgtcatatggttcacaaagaagccacact 853
QY 421 GGAGAACGGCCCTTCCATGTGAATCAGTGGCGGGGCTCATTTACCCAGAGGGCAACCTG 480
Db 854 ggagaaacgccccttcagtgcaatcagtcgaggggctcattccaccagaagggcaacctg 913
QY 481 CTCGGCCACATCAAGCTCATTTCCGGGAGAGGCCCTTCAATGCCACTCTGCAACTAC 540
Db 914 ctccggcaatcaatgcatctccgggagagcccttcacaaatgccacctcgcaactac 973
QY 541 GCCTCCCGCGGAGGAGCGCCCTCACTGGCCACCTGAGGACGACACTCGTTGGTAAACCT 600
Db 974 gcctcgccggagggagcgccctcactgcccactgagacgacactccgttggtaaacct 1033
QY 601 CACAATGTGATATTGGCGGAGAGCTATAAACAGGGAAGCTTTTAGAGGAACATAAA 660
Db 1034 cacaatgtgatatctgcccgaagctataaaacagcgaagctcttagaggaacataaa 1093
QY 661 GAGCGCTCCCAACTACTTTGAAAGCATGGCCCTTCCGGGACACTGTACCCAGTCAAT 720
Db 1094 gagcgctcccaactacttgaaagcatggccttcggggcacactgtaccacagtcat 1153
QY 721 AAGAGAACTAAGCACAGTGAATGCGAAGAACCTGTGCAAGATAGGATCAGAGAGA 780
Db 1154 aaagaagaactaatcacagtgaaatggcagaagacctgtgcaagataggatcagaga 1213
QY 781 TCTCTGCTGCTGGACAGACTAGCAAGTAATCTGCCCAACGTAAGACTCTATGCCCTCAG 840
Db 1214 tctctgctgctggacagactagcaagtaacgtcgcccaacgttaagactctatgctcag 1273
QY 841 AAATTTCTGGGACAAAGGCGCTCTCGACACGCGCTACGA---CAGTGCACGTACGAG 897
Db 1274 aaatttctgggacaaggcgctctcgacacgcccctacacagcagcgccagctacag 1333
QY 898 AAGGAGAACGAATGATCAAGTCCACGCTGATGACCAAGCAACGATCAACAGCCATCAAC 957
Db 1334 aaggagaaacgaatgataagtgagtgccacgtgatgacaaagcctacaaacagccatcaac 1393
QY 958 TACCTGGGGGCGAGTCCCTCGCGCCGCTGTGCGACAGCGCCCGCGGTTCGAGAGTG 1017
Db 1394 tacctggggcgagtcctcgcccgctggtgacagcgcccgcggttcggaggtg 1453
QY 1018 GTCCCGTATCAGCCCGATGTACCACTGCACA---GGCGCTCGGAGGACGCCCGCGC 1074
Db 1454 gtcccggtatcagcccgatgtaccagctgcacagcgctcgagggcgcccgccgc 1513
QY 1075 TCCAAACCACTCGGCCAGGACAGCGCGTGTGAGTACTGCTGCTCTCCAGAGCCCAAG 1134
Db 1514 tccaaacctcgccaggaagcgccgtggagaacctgctgctctcctcagggccaaag 1573
QY 1135 TTGTGTCCTCGGAGCGAGGCGTCCCGGAGCAACAGCTGCCAAGACTCCACGGGACACC 1194
Db 1574 ttgtgctctcgagcgagcggtcccgagcaacagctgtcaagactcccgagacacc 1633
QY 1195 GAGAGCAACAGGAGGACGAGCGCGGTCTTATCTACTGACCAACACATFCCGCCGA 1254
Db 1634 gaggcaaacagagagcagcgcggtctctatctactgaccacacacatcgcccg 1693
QY 1255 CGCGCGC---AACGCGGTGCTCAAGGAGGACCGCGCTACGACCTGCTGCGCGCC 1311
Db 1694 cagcgcgcaacggtctgtcgtccagggagagcagcgccctacgacctgctgcgcc 1753
QY 1312 GCCTCCGAGAACTCGAGGACGCGCTCCCGGTGGTCCAGCACCAGCGGGGAGCAGATGAAG 1371
Db 1754 gctccgagaactcgaggaacgctcccggtggtcagcaccacgaggggagcagatgaag 1813
QY 1372 GTGTACAAAGTCCCAACACTGCGGGGTGCTTCTCTGGATCAGTGCATGATACCACTCCAC 1431
Db 1814 gtgtacaagtgcgaacactgcccgtgtctctctctggtatcagatgatgacaccatccac 1873

QY 1432 ATGGGCTGCCACGGCTTCCGTGATCCTTTTGTAGTGCAACATGTGCGGTACCAACGCCAG 1491
Db 1874 atgggctgcacggcttccgtgatcctttttagtgcaaatgtgctgctaccacagccag 1933
QY 1492 GACCGGTACGAGTTCTCGTGCACATAACGCGAGGGAGCACCGCTTCCACATGAGCTAA 1551
Db 1934 gaccggtacgagttctcgtgcacataacgcaagggagaccgcttccacatgagctaa 1993

RESULT 11

US-09-726-802-2123
; Sequence 2123, Application US/09726802
; GENERAL INFORMATION:
; APPLICANT: Acton, Susan L.
; APPLICANT: Falb, Dean A.
; APPLICANT:
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; TITLE OF INVENTION: THEREFOR
; FILE REFERENCE: 1600.2025-001
; CURRENT APPLICATION NUMBER: US/09/726,802
; CURRENT FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: 60/168,012
; PRIOR FILING DATE: 1999-11-30
; NUMBER OF SEQ ID NOS: 2872
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2123
; LENGTH: 4786
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(4786)
; OTHER INFORMATION: n = A,T,C or G
US-09-726-802-2123

Query Match 94.7%; Score 1468.8; DB 29; Length 4786;
Best Local Similarity 97.7%; Pred. No. 1.8e-297;
Matches 1524; Conservative 0; Mismatches 27; Indels 9; Gaps 3;

QY 1 ATGGATGCTGACGAGGCTCAAGACATGCTTTCTATCAGGGAAGAAAGCCCCCTGTA 60
Db 434 atggatgctgacgaggttcacacatgtcccaagtttcagggaagaaagccccctgta 493
QY 61 AGCGATCTCCAGATGAGGCGGATGAGCCATGCCGATGCCGAGGACTCTCCACACCACC 120
Db 494 agcgatctccagatgagggcgatgagccatgcccagatcccgagagacctctccacacc 553
QY 121 TCGGAGGACACCAAGCTCCAAAGATGACAGATGCGTGGCCAGTAATGTTAAAGTAGAG 180
Db 554 tcggagagacacaaagctccaaagatgacagagtcgtggccagtaattgttaaagtagag 613
QY 181 ACTCAGAGTGATGAGAGAAATGGGCTGCTGAAATGAATGGGGAAGAAATGTCCGGAG 240
Db 614 actcagagtgtatgaagagaatggggctgctgaaatgaatggggaagaaatgtcgagag 673
QY 241 GATTTACGAATGCTTTGATGCCCTCGGAGAGAAATGAATGGCTCCACAGGACCAAGGC 300
Db 674 gatttacgaatgctgtatgctcggagagaaatgaatgctccacagaggaacagagc 733
QY 301 AGCTCGGCTTTGTCGGGAGTGGAGGCAATTCACCTTCTAACGGAAAACTAAAGTGTGAT 360
Db 734 agctcggtttgtcgggagtgaggcattcgaactcctcctcctcctcctcctcctcctcct 793
QY 361 ATCTGTGGGATCATTTGATCGGCCCAATGCTCATGTTTCAAAAAGAGGACCACT 420
Db 794 atctgtgggacatttgcctcgcccaatgtgtcattgtgttcacaaagaagccacact 853
QY 421 GGAGAACGGCCCTTCCAGTGAATCAGTGGCGGGCTCATTCACCCAGAGGCAACCTG 480
Db 854 ggagaaacgccccttcagtgcaatcagtcgaggggctcattccacccagaagggcaacctg 913
QY 481 CTCGGGCACATCAAGCTGCAATTCGGGGAGAAAGCCCTTCAAAATGCCACCTCTTGCACATAC 540

```
Db 914 ctccggcaca tcaagctgcatcccg99gagagcccttcaaaatgcccactctgcaactac 973
Qy 541 GCCTGCCCGGAGGAGCGCCTCACTGGCCACCTGAGGAGCGACTCGTGTGTAACCT 600
Db 974 gcttcgcccggaggagccctcactgcccactgagcagcactcgttggtaaacct 1033
Qy 601 CACAATGTGATATGTGGCCGAGCTATAAAGAGGAGAGCTTTAGAGGACATATAA 660
Db 1034 cacaatgtgatattgtggcgaagctataaacagcgaagctctttagaggaaacataa 1093
Qy 661 GAGCGCTGCCACAACCTACTTGAAGCATGGCTTCGGGACACACTGTACCCAGTCATT 720
Db 1094 gagcgtgcccacaactacttggaaagcatggccttcg99gacacactgtaccacgtcatt 1153
Qy 721 AAAGAAGAACTAAGCACAGTGAATGGCAGAGACCTGTGCAAGATAGGATCAGAGAGA 780
Db 1154 aaagaagaactaatcacagtgaagtgcagagacctgtgcaagataggatcagagaga 1213
Qy 781 TCTCTGCTGCTGGAGACTAGCAAGTAATGTGCCAAACGTAAAGCTCTATGCCTCAG 840
Db 1214 tctctcgtgtgacagactagcaagtaacgtgcgcaaacgtgaagactctctatgccctcag 1273
Qy 841 AAATTTCTTGGGACAAAGGCTGTCCGACACGCGCCTACGA---CAGTGCACCTACGAG 897
Db 1274 aaatttcttgg99gacaaag99cctgtccgaacgccttaacagcagcagcgcagctacgag 1333
Qy 898 AAGGAGAACAAATGATGAAGTCCACGTGATGACCAAGGCATCAACAGCCCATCAAC 957
Db 1334 aag9gagaaacaaatgatgaag tccacacgtgtgagcaagcctatcaaacagccatcaac 1393
Qy 958 TACCTGGGGCGGAGTCCCTCGCGCGCTGTGTGACAGCGCCGCGGCTTCGAGAGTG 1017
Db 1394 taccctgg999ccgagtcctcgtcgccgctgtgtgcaagcgcgcccg99ggtccgaggtg 1453
Qy 1018 GTCCGGTATCATGAGCCGATGTACAGGTGCACA---GGCGTGTGGAGGGGACCCCGGCG 1074
Db 1454 gtccgggtcatcagcccgatgtaccagctgcacaagcgcgtcgcgag99gcaacccgcgc 1513
Qy 1075 TCCAACTATCGCCGAGGAGCGCGTGGAGTACCTGTCTGTCTCTCAAGGCCCAAG 1134
Db 1514 tcaaaccactcg99ccagagcagcgcgtgtgagaaacctgctgtctctcacaag99cgaag 1573
Qy 1135 TTGGTCCCTCGAGCGCGAGCGCTCCCGAGCAACAGCTGCCAAGATCCACGAGACACC 1194
Db 1574 ttggtgccctcggagcgcgagcgtcccccagcaacagctgtcaagactccacg99gaccc 1633
Qy 1195 GAGAGCAACAGGAGGAGCGCGAGCGGTCTTATCTACCTGACCAACCATCGCCGGA 1254
Db 1634 gagagcaaacagag99gagcgcgagcgtctcatctacctgaccaaaccacatcgcccg 1693
Qy 1255 CGGCGC---AAGCGGTGTCTAAGGAGGAGCACCGCGCTACGACTGTGTGCGCGCC 1311
Db 1694 cagcgcgcaacgctgtgtcgtcgaagagagacccgcctacgacctgtgcgcgc 1753
Qy 1312 GCCTCCGAGAACTCGCAGAGCGGTTCGCGGTGTCAGCACCGGGGAGCAGATGAG 1371
Db 1754 gectcagaaactcgcagagcgcgtccgcgtggttcagcaccagc99gagcagatgaag 1813
Qy 1372 GTGTAAAGTGGCAACACTGCGGGTGCCTTCCTGGATCATGTATACCATCCAC 1431
Db 1814 gtgtaaacgtg99gaaacactgccc999gctcttccctgga tcaacgtcatgtacacacacac 1873
Qy 1432 ATGGGTGTCACCGCTTCGCTGATCCTTTTGTGAGTGCAACATGTGCGGTACACAGCCAG 1491
Db 1874 atgggtgcccagcgttcctcgtgatccttttggatgcaacatgtg99gctaccacagccag 1933
Qy 1492 GACCGGTAGAGTTCGTGTCGCATAAACGCGAGGGGACCGCTTCACATGAGCTAA 1551
Db 1934 gaccggtacaggttctcgtcgcaca taaacgag99gagcaccgctccacatgagctaa 1993
```

RESULT 12

```
US-09-726-811-4096
; Sequence 4096, Application US/09726811
; GENERAL INFORMATION:
; APPLICANT: Gutierrez-Ramos, Jose-Carlos
; APPLICANT: Wen, Danyi
; TITLE OF INVENTION: NOVEL NUCLEIC ACID MOLECULES AND USES
; FILE REFERENCE: 1600-2027-001
; CURRENT APPLICATION NUMBER: US/09/726,811
; CURRENT FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: 60/168,136
; NUMBER OF SEQ ID NOS: 5515
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4096
; LENGTH: 4786
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(4786)
; OTHER INFORMATION: n = A,T,C or G
US-09-726-811-4096
```

Query Match 94.7%; Score 1468.8; DB 29; Length 4786;
Best Local Similarity 97.7%; Pred. No. 1.8e-297;
Matches 1524; Conservative 0; Mismatches 27; Indels 9; Gaps 3;

```
Qy 1 ATGGATGCTGACGAGGGTCAAGACATGTCTTCTCATCAGGAGGAGAAAGCCCTGTA 60
Db 434 atggatgctgatgaggggtcaagacatgtcccaagatttcaggaggaagaaagccctgta 493
Qy 61 AGCGATATCTCAGATGAGGGCGATGAGCCCATCCGATCCGATCCCGAGGACCTCTCCACACC 120
Db 494 agcgatattctcagatgagggcgatgagcccatccgacatcccgagacctctccaccac 553
Qy 121 TCGGAGGACAGCAAGCTCCAAAGATGACAGATGCTGCGCCAGTAATGTTAAAGTAGAG 180
Db 554 tcggagagcagcaagctccaaagatgacagagctgtgcccagtaatgttaaagttagag 613
Qy 181 ACTCAGATGATGAAGAGATGGCGTGTGTAATGAATGAATGGGAAAGAAATGTGGGAG 240
Db 614 actcagatgtatgaagagaatggcggtgcctgtgaaatgaatgggaagaatgtgcgag 673
Qy 241 GATTACGAATGCTGTGCTCGGAGAGAAAATGAATGGCTCCACAGGAGACCAAGGC 300
Db 674 gattacgaatgctgtgtgcctcggagagagaaaatgaatggctccacagggagccaaggc 733
Qy 301 AGCTCGGCTTTGTCGGAGTGGAGGCATTCGACTTCTTAACGAAACCTTAAAGTGTGAT 360
Db 734 agctcggctttgtcggagttgagggatgagcattcgcacttctaacggaagaaactaaagtgtat 793
Qy 361 ATCTGTGGGATCATTTGCATCGGGCCCAATGTGCTCATGTTTCACAAAAGAACCCACACT 420
Db 794 atctgtggatcatcttgcacgcgccccaatgtgtcatggttcacaaaagaagccacact 853
Qy 421 GGAGAACGGCCCTTCCAGTGCATCAGTGGGGGCTTCATTCACCCAGAGAGGCAACCTG 480
Db 854 ggagaaaggcccttccagtgcattcagtgcg99gctcattccaccagaaagggcaacctg 913
Qy 481 CTCCGGCACATCAAGCTGCATTCGGGGAGAGGCCCTTCAAAATGCCACCTCTGCAACTAC 540
Db 914 ctccggcaca tcaagctgcattcccg99gagagagcccttcaaatgccacctctgcaactac 973
Qy 541 GCCTCCCGCGGAGGAGCGCCCTCAGTGGCCACCTGAGGAGCGACCTCGTGTGTAACCT 600
Db 974 gcttcgcccggaggagcgcctcactgcccactgtgagcagcactcgttggtaaacct 1033
Qy 601 CACAATGTGATATTTGTGCGCGAAGCTATAAAGAGGAGAAAGCTTTAGAGGAGACATAA 660
Db 1034 cacaatgtgatattgtg99ccgaagctataaacagcgaagcgtcttttagaggaaacataa 1093
```

```
QY 661 GAGCGTCCACAACTACTTGGAAAGCATGGGCTTCCGGGCACACTGTACCCAGTCAATT 720
Db 1094 gagcgtgcacaaactacttggaaagcatggccttcgggcacactgtaccagtcatt 1153
QY 721 AAAGAAAGAAACTAAGCACAGTGAATGGCAGAGACCTGTGCAAGATAGGATCAGAGAG 780
Db 1154 aaagaagaactaatcacagtgaaaagcagagacccgtgcaagataggatcagagaga 1213
QY 781 TCCTCTGCTGCTGACAGACTAGCAAGTAATGTGCGCAACGCTAAGAGCTCTATGCTCAG 840
Db 1214 tctctcgtgctgacagactagcaagtaacgtagcgaacagtaagatgctctatgctcag 1273
QY 841 AAATTTCTTGGGACAAAGGCTCTGCGACAGCCCTACGA---CAGTGCACAGTACGAG 897
Db 1274 aaattctctgggacaagggcgtgcccacagcctacagcagcagcagcagcagcag 1333
QY 898 AAGGAGAAACGAATGATGAAGTCCACAGTGTGAGACCAAGCATCAACAAAGCCATCAAC 957
Db 1334 aaggagaacgaatgatgaagtcacacgtgaaagcagagacccatcaacaaagccatcaac 1393
QY 958 TACCTGGGGCGGAGTCCCTGCGCCCGCTGTGTCAGACGCCCGCGGCTTCCGAGGTG 1017
Db 1394 tacctggggcggagtcctgcccgcgtggtgcaagcgcgcccggtggttcgaggtg 1453
QY 1018 GTCCCGGTATCAGCCGATGTACAGCTGCACA---GGCGCTCGGAGGACACCCCGGC 1074
Db 1454 gtcccggtatcagccgagtcaccagctgcacaagcgcgtcgaggagggcaccccgcg 1513
QY 1075 TCCAACTACTCGGCCAGGACAGCCGCTGGAGTACCTGTCTGCTCTCCAAAGGCCAAG 1134
Db 1514 tccaaactactcgccacagagcagcgcgtggaagacctgctgctctcacaagccaaag 1573
QY 1135 TTGCTGCTCGGAGCGGAGCGTCCCGGAGCAACAGCTGCCAAGACTCCACGGACACC 1194
Db 1574 ttggctgctcgagcgcgagcgcgtcccgagcaacagctgcaagactccacaggacacc 1633
QY 1195 GAGACAAACAGGAGGACGAGCGGCTTATCTACCTGACCAACACCATCGCCGGA 1254
Db 1634 gagagcaaacagagagcagcagcgcgtctctctctctctctctctctctctctctct 1693
QY 1255 CGCGGCG---NACGGTGTGCTCAAGGAGGAGCACCAGCGCTACGACCTGCTCGCGGCC 1311
Db 1694 cagcgcgcgaacgctgtgctcctaagagagcagcgcgtctctctctctctctctctct 1753
QY 1312 GCCTCCGAGAACTCGCAGGACGCGCTCGCGTGTGTCAGACACCGGCGGAGCAGATGAAG 1371
Db 1754 gcctccgagaaactcgagagcgcgtcgctcgctcgctcgctcgctcgctcgctcgctcg 1813
QY 1372 GTGTACAAAGTGCAGAACTGCGCGGTGCTCTTCTGATCAGCTCATGTACACCATCCAC 1431
Db 1814 gtgtacaagtgcgaacactgcccgtgctctctctctctctctctctctctctctctct 1873
QY 1432 ATGGGCTGCCAGGCTTCCGTGATCTTTGAGTGAACATGTGCGGCTTACCACAGCCAG 1491
Db 1874 atgggctgccagcgtctccgtgaccccttttggagcaacatgtgctgctctctctctct 1933
QY 1492 GACCGGTACGAGTCTCTGTCGACATAACGCGGGAGACCGCTTCCACATGAGCTAA 1551
Db 1934 gaccggtacgagttctctctcgcacataacgcgagggagcaccgcttccacatgagctaa 1993
```

RESULT 13

```
US-60-324-185-24401
: Sequence 24401, Application US/60324185
: GENERAL INFORMATION:
: APPLICANT: Morris, MacDonald
: APPLICANT: Lal, Preeti
: APPLICANT: Diep, Dinh
: TITLE OF INVENTION: METHOD FOR THE IDENTIFICATION OF SEQUENCE POLYMORPHISMS USING
: POLYNUCLEOTIDE SEQUENCE DATABASES, AND SINGLE NUCLEOTIDE
: TITLE OF INVENTION: POLYMORPHISMS IDENTIFIED THEREBY
: FILE REFERENCE: GX-0019-1 P
```

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: CURRENT APPLICATION NUMBER: US/60/324,185
: CURRENT FILING DATE: 2001-09-21
: NUMBER OF SEQ ID NOS: 35862
: SOFTWARE: PERL Program
: SEQ ID NO 24401
: LENGTH: 6203
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc_feature
: OTHER INFORMATION: Incyte ID No: 345320.3
US-60-324-185-24401
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Query Match 94.0%; Score 1457.8; DB 71; Length 6203;
Best Local Similarity 97.8%; Pred. No. 3.8e-295;
Matches 152; Conservative 0; Mismatches 27; Indels 10; Gaps 4;
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QY 1 ATGGATCTGACGAGGCTCAAGACATGCTTCTTCATCAGGGAAGAAAGCCCCCTGTGA 60
Db 169 atggtatgtaggggtcaagacatgtccaaagtttcagggaagaaagccccctgtga 228
QY 61 AGCGATACTCCAGATGAGGCGGATGAGCCCATGCCGATCCCGGAGACCTCTCCACACC 120
Db 229 agcgatactccagatgaggcgatgagcccatgccatcccgaggacccctctccacc 288
QY 121 TCGGGAGGACAGCAAGCTCCAAAGAGTGACAGAGTCTGTCGCCAGTAATGTTAAAGTAGAG 180
Db 289 tcgggaggaacagcaagactccaaagatgacagagtcgtgcccagtaatgtctaaagtagag 348
QY 181 ACTCAGAGTGAAGAGAGATGGCGTGTGTAATGAATGGGGAAGAAATGTGCGGAG 240
Db 349 actcagagtgatgaagagaatggcgctgctgtgaaatgaatggggaagaatgtgcggag 408
QY 241 GATTACGAATGCTTCTGCTCGGAGAGCAAAATGAATGAATGGTCCACAGGACCAAGGC 300
Db 409 gattcagaatgcttctgctcctcgagagaaaatgaatggctccacagggaccagagc 468
QY 301 AGCTCGGCTTTGTCGGGAGTTGAGGAGTTCGACTTCCTTAACGGA-AAACTAAAGTGTC 359
Db 469 agctcggcttctgctggaggtgagcattcctcctaaacggagaaactaaagtgtga 528
QY 360 TATCTGTGGATCATTTGGATCGGGCCCAATGTGTCATGTTTCACAAAGAACGCCACAC 419
Db 529 tatctgtggatcatattgtcatcgggcccaatgtgctcatggttcacaaagaagccacac 588
QY 420 TGAGAACCGCCCTTCCAGTGAATCAGTCCGGGCGCTCATTCACCCAGAGGGCAACCT 479
Db 589 tggagaaacgccccttccagtcgaatcagtcgaggcgccctcattccaccagaagggcaacct 648
QY 480 GCTCCGGCACATCAAGCTCATTTCCGGGAGAGAGCCCTTTCAATGCCACTCTGCAACTA 539
Db 649 gctccggcacatcaagctcatctccggggagagcccttcaaatgccacctgtcaacta 708
QY 540 CGCTTCCCGCCGGAGGCGCCCTCCTCAGTCCACCTGAGGAGCGACCTCGTGTGTAACCC 599
Db 709 cgcttcgcgcggagggagcgcctcactggccacctgaggacgcactcctggtgtaaac 768
QY 600 TCACAAATGTGATATTTGGGCGGAAGCTATAAACAGCGAAGCTCTTTAGAGGAACATAA 659
Db 769 tcacaaatgtgatatgttggccgaagctataaacaagcgaagcctctcttagaggaacataa 828
QY 660 AGAGCGCTGCCACAACACTACTTTGGAAGAGCATGGGCTTCCGGGCACACTGTACCCAGTCA 719
Db 829 agagcgtgcacaactacttggaaagcatggccttcggggcacactgtaccagtcact 888
QY 720 TAAAGAAGAACTAAGCACAGTGAATGGCAGAGACCTGTGCAAGATAGGATCAGAGAG 779
Db 889 taagaagaacaaactaatcacagtgaaatggcagaagacacctgtcgaagataggtatcagagag 948
QY 780 ATCTCTGCTGTGGACAGACTAGCAAGTAATGTGCCAAACGTAAGAGCTCTATGCTCTCA 839
Db 949 atctctgctgtgacagactagcaagtaacgtgcacaaagcgaagcgtcctctctctctca 1008
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| | | | | | |
|---------------------------|------|---|------|---------------------------------------|--|
| ; LOCATION: (1)....(1383) | | Query Match | | 89.4%; Score 1386; DB 1: Length 1386; | |
| PCT-US99-02559-16 | | Best Local Similarity | | 100.0%; Pred. No. 3.5e-280; | |
| | | Matches 1386; Conservative | | 0; Mismatches 0; Indels 0; Gaps 0; | |
| QY | 166 | ATGTTAAAGTATGAGACTCAGAGTATGATGAAGAGATGGCGTGGCTGTGAAATGAATGGG | 225 | | |
| Db | 1 | aatgtcaagtgtagagactcagagtgatgaagagaatggcggtgctgtgaaatgaatggg | 60 | | |
| QY | 226 | GAAGAAATGTCGGAGGATTTACGAATGCTTGATGCTCGGGAGAGAAAATGAATGGCTCC | 285 | | |
| Db | 61 | gaagaatgfcgaggagatttacgaatgcttgatgcctcgggagagaaaatgaatggctcc | 120 | | |
| QY | 286 | CACAGGACCAAGCGACTCGGCTTTGTCGGAGTTGGAGGATTCGACTTCCTAACGGA | 345 | | |
| Db | 121 | cacaggacaaaggcgagctcgcttctgctggaggttggaggcaattcgaacttctaaccga | 180 | | |
| QY | 346 | AAACTAAAGTGTATCTCTGGGATCATTTGCATCGCGGCCCAATGTCTATGTTTCAC | 405 | | |
| Db | 181 | aaactaaagtgtatctctggtgatacttgcctcgggccaatgtgctcatggttcac | 240 | | |
| QY | 406 | AAAAGAACCCACTCGGAGACCGCCCTTCCAGTGAATCAGTGGCGGCTCTCATTCACC | 465 | | |
| Db | 241 | aaaagaagccacactggagaaacggcccttccagtcgaatcagtcgagggccctcaacc | 300 | | |
| QY | 466 | CAGAAGGCCAACCTGCTCCGGCACATCAAGCTCATTCGGGGAGAGGCCCTTCAATGC | 525 | | |
| Db | 301 | cagaagggaacactgctccggcacatcaagctgcttccggggagagcccttcaatgc | 360 | | |
| QY | 526 | CACCTCTGCAACTACGCTGCCCGGAGGAGCGCCCTCACTGGCCACCTGAGGAGCGAC | 585 | | |
| Db | 361 | caactctgcaactacgctgctcggagggagcgcctcaactgcccacttgaggagcgcac | 420 | | |
| QY | 586 | TCCGTTGTAACCTCAAAATGTTGATATGTTGGCGGAAGCTATATAACAGACGCAAGCTCT | 645 | | |
| Db | 421 | tcggttggtaaacctcaaaatggtgatactgtggcgaagctataaacaagcgaacgtct | 480 | | |
| QY | 646 | TTAGAGGAACATAAAGAGCGCTGCCACAACTACTTTGAAAGCATGGGCTTCCGGGCACA | 705 | | |
| Db | 481 | ttagaggaaataaaggagcgtgcacaaactacttgaaagcagtgagccttccgggcaca | 540 | | |
| QY | 706 | CTGTACCCAGTCATTAAGAGAACTAAGCACAGTGAATGGCAGAACCTGTGCAAG | 765 | | |
| Db | 541 | ctgtaccagtcataaagaagaacatacgaacagtgaaatggcagaagaacctgtgcaag | 600 | | |
| QY | 766 | ATAGGATCAGAGAGATCTCTGCTGGACAGACTAGCAAGTAAATGTCGCCAAACGCTAAG | 825 | | |
| Db | 601 | ataggatcagagagatctctgctgtagacagactagcaagtaagtgcgcaaacgtaag | 660 | | |
| QY | 826 | AGCTCTATGCTCAGAAATTTCTTGGGGACAGGGCGTGTCCGACACGCCCTAGCAGCT | 885 | | |
| Db | 661 | agctctaagctcagaaatttcttggggaagaaggcgtgtccgacagcgcctcagcagct | 720 | | |
| QY | 886 | GCCAGTACGAGAGAGAGAAATGATGAATGCCACCTGTGATGAGCAACGATCAAC | 945 | | |
| Db | 721 | gccacgtacgaagaaggagaaatgatgaagtcaccacgtgatggaccaagccatcaac | 780 | | |
| QY | 946 | AACGCCATCAACTACCTGGGGCGGAGTCCCTGCGCCGCTGTGTGACAGACCCCGGGC | 1005 | | |
| Db | 781 | aacgccataactacctggggcgagtcctctgcccgcgtggtgcagagcgcctcggagggc | 840 | | |
| QY | 1006 | GGTCCGAGGTGTCCTCCGGTCTATCAGCCCGATGTACAGCTGCACAGCGCTCGAGGGC | 1065 | | |
| Db | 841 | ggttccgaggtggtcccggtcatcagcccgatgtaccagctgcacagggcgtcggagggc | 900 | | |
| QY | 1066 | ACCCGCGCTCCACCACTCGGCCCGCAGACAGCGCGCTGGAGTACCTGCTGCTCTCC | 1125 | | |
| Db | 901 | acccgcgctccaaccactcggcccaagagacgcccgtggagtagacctgtgctgtctccc | 960 | | |
| QY | 1126 | AAGGCCAAAGTTGGTCCCTCGAGCGGAGCGGCTCCCGCGAGCAACAGCTGCCAAGACTCC | 1185 | | |

RESULT 14
PCT-US99-02559-16
; Sequence 16, Application PC/TUS9902559
; GENERAL INFORMATION:
; APPLICANT: Shiseido Co., Ltd.
; TITLE OF INVENTION: AIOLOS GENE
; FILE REFERENCE: 10287/031W01
; CURRENT APPLICATION NUMBER: PCT/US99/02559
; CURRENT FILING DATE: 1999-02-05
; EARLIER APPLICATION NUMBER: US 09/019,348
; EARLIER FILING DATE: 1998-02-05
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 1386
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS


```

Db 961 aag9ccaaagtgggtccctcgagcgcgagggcgtcccccagcaacagctgccaagactcc 1020
QY 1186 ACGGACACCGAGAGCAACACAGGAGAGCAGCGCGGTCTTATCTACCTGACCAACAC 1245
Db 1021 acggacacgcgagcaacacagagagcgcagcggcttatctaccctgaccacacac 1080
QY 1246 ATGCCCGCGAGCGCGCAACGCGTGTGCTCAAGAGGAGAGCACCGCGCTTACGACCTGCTG 1305
Db 1081 atcgccgcagcgcgcgaacgcgtgtgcctcaaggagagcagcgcgcctacgacctgctg 1140
QY 1306 CGGCGCGCTCCGAGAACTCGAGGAGCGCTCCGCGGTGTCAGCACACCGCGGAGAGCAG 1365
Db 1141 cgcgcgcctccgcgagcaactcgagggacgcgcctccgcgtgctcagcaccagcgggagcag 1200
QY 1366 ATGAAGGTGTACAAGTGCAGAACACTGCCGCGGTGCTCTTCTCGATCATCATGTACACC 1425
Db 1201 atgaaggtgtacaagtgcgaacactgcgcgggtgctcttcctggatcaacgtcatgtacacc 1260
QY 1426 ATCCACATGGGTGCGACCGCTTCGCTGATCCTTTTGTAGTGCAACATGTGCGGCTTACCAC 1485
Db 1261 atccacatgggtgcacggcttcctgtagctctttttagtgcaacatgtggcgctlaccac 1320
QY 1486 AGCAGGACCGGTACGAGTCTCGTCGCACATAACGCGAGGAGGACCGCTTCCACATG 1545
Db 1321 agccagggccgttcagtgcttcctgcacataaacgcgaggggagcaacgcgttcacacatg 1380
QY 1546 AGCTAA 1551
Db 1381 agctaa 1386

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RESULT 15

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US-08-238-212A-3
; Sequence 3, Application US/08238212A
; GENERAL INFORMATION:
; APPLICANT: Georgopoulos, Katia A.
; TITLE OF INVENTION: IKAROS: A T CELL PATHWAY REGULATORY GENE
; NUMBER OF SEQUENCES: 164
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, Suite 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII (text)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/238,212A
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION NUMBER: US 121,438
; FILING DATE: 14-SEP-1993
; APPLICATION DATA:
; APPLICATION NUMBER: US 946,233
; FILING DATE: 14-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Myers, Paul L.
; REGISTRATION NUMBER: 35,695
; REFERENCE/DOCKET NUMBER: MPG-006CP2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1386 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double

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; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1386
; US-08-238-212A-3

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Query Match 89.4%; Score 1386; DB 6; Length 1386;
Best Local Similarity 100.0%; Pred. No. 3.5e-280; Indels 0; Gaps 0;

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Matches 1386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 166 AATCTTAAAGTAGAGACTCAGAGTGATGAAGAGAAATGGGCTGCTGTGAATGAATGGG 225
Db 1 AATCTTAAAGTAGAGACTCAGAGTGATGAAGAGAAATGGGCTGCTGTGAATGAATGGG 60
QY 226 GAAGAAATGTGGGAGGATTTACGAATGCTTGTATGCTCCGGGAGAGAAAATGAATGGCTCC 285
Db 61 GAAGAAATGTGGGAGGATTTACGAATGCTTGTATGCTCCGGGAGAGAAAATGAATGGCTCC 120
QY 286 CACAGGACCAAGGCAGCTCGGCTTTGTGCGGAGTTGAGGSCATTCGACTTCCTTAACGGA 345
Db 121 CACAGGACCAAGGCAGCTCGGCTTTGTGCGGAGTTGAGGSCATTCGACTTCCTTAACGGA 180
QY 346 AAACCTAAAGTGTGATATCTGTGGGATCATTTGCATCGGGGCCAATGTGCTCATGTTTAC 405
Db 181 AAACCTAAAGTGTGATATCTGTGGGATCATTTGCATCGGGGCCAATGTGCTCATGTTTAC 240
QY 406 AAAAGAGCCACACTGGAGAACGGCCCTTCAGTGCATCAATCAGTGGGGGCTCATTCACC 465
Db 241 AAAAGAGCCACACTGGAGAACGGCCCTTCAGTGCATCAATCAGTGGGGGCTCATTCACC 300
QY 466 CAGAAAGGCAACCTGCTCCGGGCACATCAAGCTGCATTCCGGGGAGAGCCCTTCAATGC 525
Db 301 CAGAAAGGCAACCTGCTCCGGGCACATCAAGCTGCATTCCGGGGAGAGCCCTTCAATGC 360
QY 526 CACCTCTGCAACTACGCTTCCCGCGGAGGAGCCCTCTACTGGCCACCTGAGAGCGCAC 585
Db 361 CACCTCTGCAACTACGCTTCCCGCGGAGGAGCCCTCTACTGGCCACCTGAGAGCGCAC 420
QY 586 TCCGTTTGTAACCTCACAATGTGGATATTTGGCGGAAGCTATTAACAGCAAGCTCT 645
Db 421 TCCGTTTGTAACCTCACAATGTGGATATTTGGCGGAAGCTATTAACAGCAAGCTCT 480
QY 646 TTAGAGGAACATAAAGAGCGCTGCCACACTACTTTGAAAAGCATGGGCCCTTCCGGGCACA 705
Db 481 TTAGAGGAACATAAAGAGCGCTGCCACACTACTTTGAAAAGCATGGGCCCTTCCGGGCACA 540
QY 706 CTGTACCAGTCATTAAAGAGAACTAAGCACAGTGAATGGCAGAACCTGTGCAAG 765
Db 541 CTGTACCAGTCATTAAAGAGAACTAAGCACAGTGAATGGCAGAACCTGTGCAAG 600
QY 766 ATAGGATCAGAGAGATCTCTCGTGGACAGACTAGCAGTAATGTGCGCAACCTAAG 825
Db 601 ATAGGATCAGAGAGATCTCTCGTGGACAGACTAGCAGTAATGTGCGCAACCTAAG 660
QY 826 AGCTCTATGCTCAGAAATTTCTTGGGACCAAGGGCTGTCCGACACGCGCTTACGACAGT 885
Db 661 AGCTCTATGCTCAGAAATTTCTTGGGACCAAGGGCTGTCCGACACGCGCTTACGACAGT 720
QY 886 GCCACGTACGAGAGAGAGAACGAAATGATGAAGTCCCGCATGTATGCAACGACCATCAAC 945
Db 721 GCCACGTACGAGAGAGAGAACGAAATGATGAAGTCCCGCATGTATGCAACGACCATCAAC 780
QY 946 AAGCCCATCAACTACCTTGGGGGCCGAGTCCCTCGCGCGCTGGTGCAGACGCCCGCGGC 1005
Db 781 AAGCCCATCAACTACCTTGGGGGCCGAGTCCCTCGCGCGCTGGTGCAGACGCCCGCGGC 840
QY 1006 GGTTCGAGGTGTCCCGGTTCATACGCCCGATGTACACGCTGCACAGGCGCTCGAGGCGC 1065
Db 841 GGTTCGAGGTGTCCCGGTTCATACGCCCGATGTACACGCTGCACAGGCGCTCGAGGCGC 900
QY 1066 ACCCCGGCTCCCAACCACTCGGGCCAGGACAGGGCGGTGGAGTACCTGCTGCTCTCTCC 1125

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Db 901 ACCCGCGCTCCAACTCGGCGGAGACAGCGCGTGGAGTACCTGCTGCTCTCC 960
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Db 961 AAGGCCAAGTTGGTCCCTCGAGCGCGAGGCGTCCCGAGCAACAGTGCAGACTCC 1020
QY 1186 ACGGACACCGAGAGCAACAACAGGAGCAGCGCGTCTTATCTACCTGACCAACCAC 1245
Db 1021 ACGGACACCGAGAGCAACAACAGGAGCAGCGCGTCTTATCTACCTGACCAACCAC 1080
QY 1246 ATGCCCGGACGCGCGCAACGCGTGTGCTCAAGGAGGAGCAGCGCGCTACGACCTGCTG 1305
Db 1081 ATGCCCGGACGCGCGCAACGCGTGTGCTCAAGGAGGAGCAGCGCGCTACGACCTGCTG 1140
QY 1306 CGCGCGCGCTCCGAGAACTCGCAGGACGCGCTCCGCGTGGTCAGCACCGGGGAGCAG 1365
Db 1141 CGCGCGCGCTCCGAGAACTCGCAGGACGCGCTCCGCGTGGTCAGCACCGGGGAGCAG 1200
QY 1366 ATGAAGGTGTACAAGTGCAGAACTGCCGCGTGTCTTCTCTGGATCAGTGTATACAC 1425
Db 1201 ATGAAGGTGTACAAGTGCAGAACTGCCGCGTGTCTTCTCTGGATCAGTGTATACAC 1260
QY 1426 ATCCACATGGGCTGCCACCGGCTTCGCTGATCCTTTTGTAGTGCAACATGTGGGCTTACCAC 1485
Db 1261 ATCCACATGGGCTGCCACCGGCTTCGCTGATCCTTTTGTAGTGCAACATGTGGGCTTACCAC 1320
QY 1486 AGCCAGGACCGGTACGAGTCTCGTCGACATACCGGAGGAGCAGCGGCTTCCACATG 1545
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QY 1546 AGCTAA 1551
Db 1381 AGCTAA 1386
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